

**LA-1000-NT  
1200 WATT  
NO-TUNE  
AMPLIFIER**

NAME

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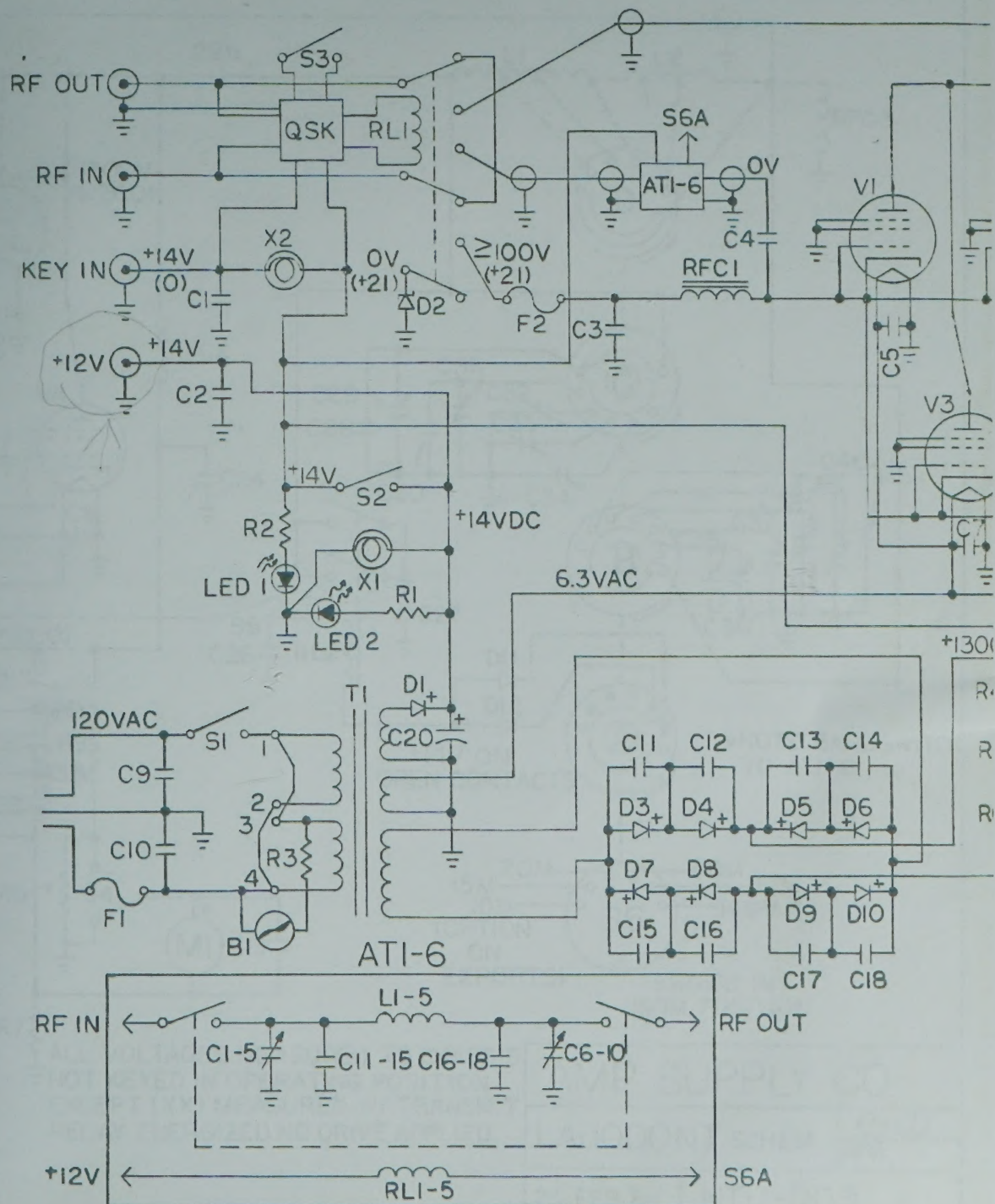
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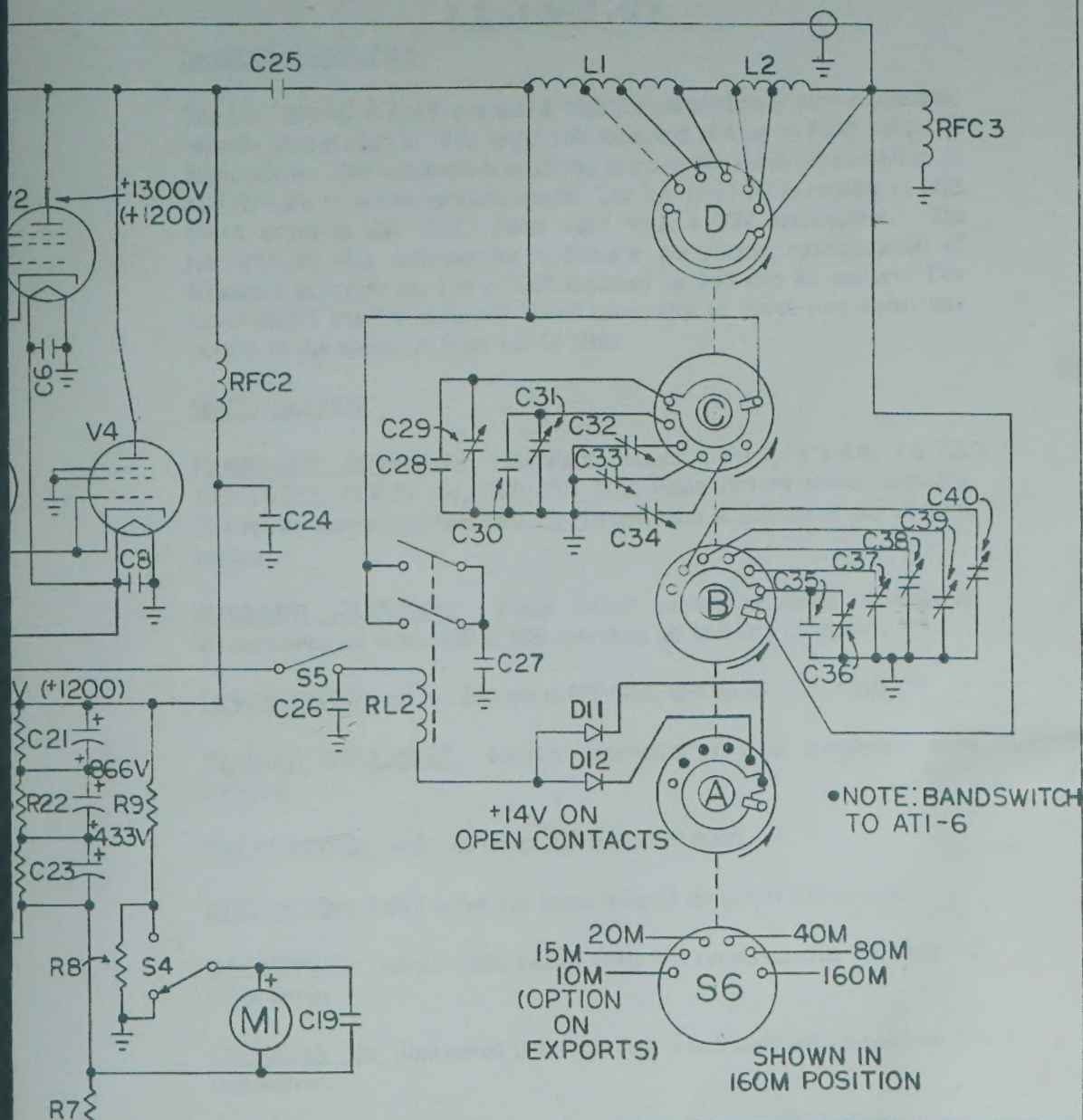












AMP SUPPLY CO.

LA-1000NT SCHEM.

CND  
 APP.

24, FEB. '84

NTU-003





# AMP SUPPLY CO.

## LA-1000-NT

### GENERAL DESCRIPTION

The LA-1000-NT is a self-contained, high frequency linear power amplifier capable of operation at 1200 watts PEP sideband and up to 1000 watts CW input power. The bandswitch positions provide NO-TUNE-UP operation on 160 through 10 meter amateur bands. The LA-1000-NT is capable of high speed break-in CW (QSK) when used with a QSK transceiver. The LA-1000-NT also incorporates a feature permitting optimization of efficiency in either the CW or SSB subband on 160 and 80 meters. The LA-1000-NT can be manually tuned internally to cover just about any portion of the spectrum from 1.8-30 MHz.

### SPECIFICATIONS

**FREQUENCY COVERAGE:** Amateur bands 1.8-1.9, 3.5-4.0, 7.0-7.3, 14.0-14.350, 21.0-21.450, 28.0-29.5 MHz using factory-preset circuitry. The owner may adjust these settings to optimum efficiency in any of these ranges.

**SUBBAND SELECTION:** Panel switch selects optimum no-tune-up arrangement for either CW or SSB operation on 160 and 80 meters.

**POWER INPUT:** Up to 1200 watts PEP/SSB, and up to 1000 watts CW.

**TYPICAL EFFICIENCY:** 60-72% depending on load, frequency, drive level, etc.

**DRIVE POWER:** 100-140 watts PEP for rated input.

**DISTORTION:** Third order *IM* more than 31 dB below PEP output.

**HARMONICS:** Substantially better than FCC requirements; typically -45 dB or better.

**CW BREAK-IN:** High speed QSK capability when used with a suitable QSK transceiver.

**TUBE COMPLIMENT:** Four 6MJ6 heavy duty pentodes, with drive applied to the first grid and cathode----termed *super drive*.

**COOLING:** Full-cabinet ducted forced air. Air is drawn in the bottom front and exhausted out the rear back.





**PRIMARY AC VOLTAGE:** 220-240 volt AC @ 10A max. or 110-122 volt AC @ 15A max. , 50-60 Hz, single phase. Maybe changed in the field.

**SIZE:** W 11", H 4.75", D 9.75"

**WEIGHT:** 26 LBS

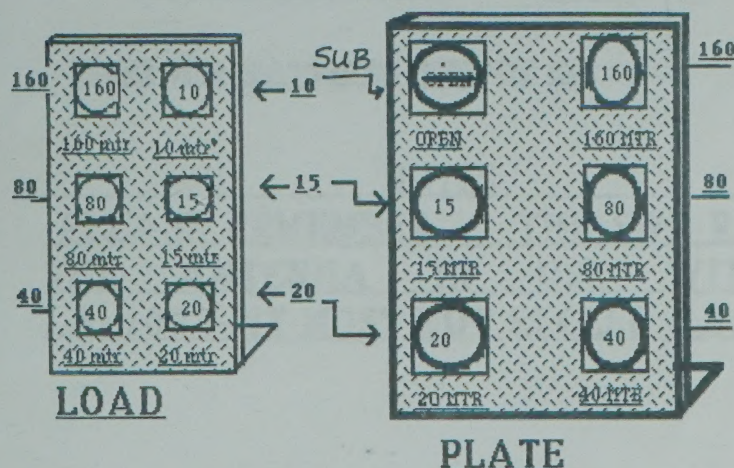
**FINISH:** Dark gray front and light gray cover made of solid aluminum.

**\*\*\*\*\* IMPORTANT \*\*\*\*\* OUTPUT IMPEDANCE:** FACTORY SET FOR 50 OHM RESISTIVE LOAD AT 1.1 - 1 SWR, MAYBE ADJUSTED INTERNALLY FOR AN SWR UP TO 1.5:1.

**INSTALLATION: FOLLOW THE LA-1000A MANUAL**

The LA-1000-NT is identical to the LA-1000A in all aspects except the tuning procedure.

**PRESET TUNING CONTROL POSITIONS**



**TUNING INSTRUCTIONS:** ONLY IF THE SWR IS OVER 1.3:1 ON THE STATION ANTENNA SYSTEM..USE CAUTION HIGH VOLTAGE!!!

The amplifier must be connected to a 50 ohm load or to the proper antenna with an **SWR** ratio of less than **1.3:1**. A wattmeter must be in the output line after the amplifier before the antenna load.

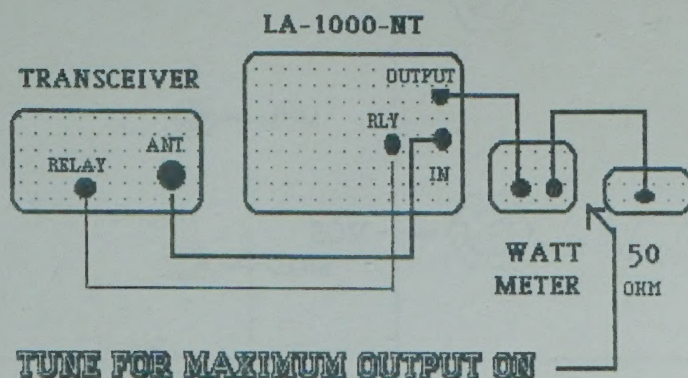
Turn the LA-1000-NT power on with the stand-by switch the the **STY** position. Select the desired frequency on the band switch. Make certain that the transceiver power output control is set to zero. Next place the LA-1000-NT in the **OPT** position. Place the transceiver in the appropriate





mode to deliver a steady (adjustable) carrier, usually called **CW** or **Tune**. Slowly increase the transceiver carrier power output until the plate current on the LA-1000-NT reads **350 ma.** Carefully adjust the **LOAD** for maximum output on the wattmeter. Wait 10 seconds for cool down of the tubes. Carefully adjust the **PLATE** for maximum output. Wait 10 seconds for cool down of the tubes. Now apply full carrier and adjust both **LOAD** and **PLATE** for maximum output on the wattmeter. **IMPORTANT..... ONLY LEAVE THE LA-1000-NT IN THE TUNE POSITION FOR 10 SECONDS AT A TIME.....**

-----**DANGER HIGH VOLTAGE**-----



### NOTES

**PLEASE REMEMBER : THE SWR RATIO ON THE ANTENNA IN USE WITH THE LA-1000-NT MUST NOT EXCEED 1.3:1 !!!!**





